

Title (en)  
Production of dielectric ceramic material powder

Title (de)  
Herstellung von keramischen dielektrischen Pulvern

Title (fr)  
Production de poudres céramiques diélectriques

Publication  
**EP 0705804 A1 19960410 (EN)**

Application  
**EP 95115546 A 19951002**

Priority  
JP 23905894 A 19941003

Abstract (en)  
Powder of dielectric ceramic materials is produced by preparing a main component  $\text{Ba}(\text{Ti}_{1-x-y}\text{Zr}_x\text{Hf}_y)\text{O}_3$  allowing barium hydroxide, at least one titanium compound, at least one zirconium compound and at least one hafnium compound to react with one another by condensation by catalytic actions of a base selected from the group consisting of alkali and amines; preparing a complex hydroxide of at least one rare earth element and manganese by allowing at least one rare earth element compound and a manganese compound to react with a base selected from the group consisting of alkali and amines in an aqueous solution; preparing at least one carbonate of calcium and magnesium by allowing at least one compound of calcium compounds and magnesium compounds to react with carbonate ions in an aqueous solution; mixing all the precipitates, and drying and thermally treating the resultant mixture.

IPC 1-7  
**C04B 35/49**; **C01B 13/36**; **C01G 25/00**; **C01G 27/00**

IPC 8 full level  
**C01G 25/00** (2006.01); **C01G 27/00** (2006.01); **C04B 35/49** (2006.01); **C04B 35/626** (2006.01)

CPC (source: EP KR US)  
**C01G 25/006** (2013.01 - EP KR US); **C01G 27/006** (2013.01 - EP KR US); **C04B 35/49** (2013.01 - EP KR US);  
**C04B 35/626** (2013.01 - EP KR US); **C01P 2002/34** (2013.01 - EP KR US)

Citation (search report)  
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• [A] DE 3612705 A1 19861023 - MURATA MANUFACTURING CO [JP]  
• [A] EP 0360649 A1 19900328 - EUROP COMPOSANTS ELECTRON [FR]  
• [A] EP 0324619 A1 19890719 - DU PONT [US]

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**EP 0705804 A1 19960410**; **EP 0705804 B1 19980701**; DE 69503208 D1 19980806; DE 69503208 T2 19990107; KR 0147345 B1 19980817;  
KR 960014069 A 19960522; US 5554571 A 19960910

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